

Stereochemistry of seven-membered heterocycles. 2. IR spectra, dipole moments, and inductive effect of the alkyl groups in 2-alkylbenz[e]-1,3-dioxepanes

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Abstract

1. The conformational equilibrium, chair (e)-twist, which is anancomerically shifted toward the chair form for $R=C(CH_3)_3$, is characteristic for 2-benz[e]-1,3-dioxepanes, where $R=H$, CH_3 , C_2H_5 , $n-C_3H_7$, and $i-C_3H_7$. 2. A correlation between the μ_2 of the 2-alkyl-1,3-dioxanes and the induction constants σ_I was found. © 1980 Plenum Publishing Corporation.

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